

APR 3 2002

What is claimed is:

1. A protein chip holding tool for protein chips 33 in which a resilient body 37 having a number of holes 37a disposed in the form of matrices closely adhered onto the upper surface of a substrate 35 and an appointed amount of a protein test sample solution dispersed into the respective holes 37a, comprising:

a substrate holding member 39 in which at least one or more substrate holding portions 41 holding the substrate 35 on the upper surface thereof is provided;

a resilient holding member 45 that is turnably supported so as to cover the upper surface of the substrate holding member 39 at one end portion of the substrate holding member 39, and in which a resilient body engaging portion 51 holding the resilient body 37 on the mutually facing plane of the substrate holding member 39 is provided so as to face the substrate holding portion 41, and at the same time openings 45a are provided so as to be coincident with the number of the holes 37a of the held resilient body 37; and

an opening and closing member 53 that is movably supported on the upper surface of the resilient holding member 45 and opens and closes the openings 45a.

2. The protein chip holding tool as set forth in Claim 1, wherein the resilient body 37 is made of a silicone rubber plate, and the mutually facing plane with respect to the substrate is ground and flattened.

3. A protein chip holding tool wherein openings 45a of the resilient body holding member 45 are individually provided with respect to the respective holes 37a of the resilient body 37.

4. A protein chip holding tool wherein the openings 45a of the resilient body holding member 45 are made into slits that are continuous with respect to the respective holes 37a of the resilient body 37.

5. The protein chip holding tool as set forth in Claim 1, wherein, when the resilient body holding member 45 is turned so as to cover the substrate holding member 39, the opening and closing member 53 is coupled to an operating member 57 and is opened and closed.